

**From:** Bataille, Amber C. (DNREC)  
**Sent:** Wednesday, September 17, 2014 10:13 AM  
**To:** Boyd, Tisha R. (DNREC); Rios, Ricardo (DNREC)  
**Cc:** Pongratz, Alan E. (DNREC); Beckel, Anita (DNREC); Cargill IV, John G. (DNREC)  
**Subject:** Public Well 246039

The GPB has completed a limited hydrologic review for a proposed public well to serve the Town of Blades. The proposed 8 inch well will be screened from 65 to 95 feet below ground surface (ft bgs) with gravel pack from 55 to 95 ft bgs. Cement is proposed from the ground surface to 55 ft bgs. The well is proposed to pump 150 gallons per minute with a maximum daily withdrawal of 160,000 gallons per day. The well is proposed to be drilled on Town Property. **Ex. 9 Wells**

The well is proposed to be approximately **Ex. 9 Wells**  
**Ex. 9 Wells** According to the LUST database the site removed 3 tanks were removed and 3 tanks were abandoned in place. Groundwater was not impacted by the tanks and contaminated soils were remediated onsite. The site was closed in 1991.

The well is proposed to be approximately **Ex. 9 Wells**  
**Ex. 9 Wells** According to SIRS and the Environmental Navigator, two tanks were removed from the site. Soil contamination had occurred but was removed and properly disposed. There are no outstanding issues related to soil or groundwater contamination at the site, according to SIRS. In addition, SDWIS data from the Office of Drinking Water shows no impact to the Towns current wells, 40024 and 40025, from the site.

The well is proposed to be approximately **Ex. 9 Wells**  
**Ex. 9 Wells** High concentrations of chromium (greater than 100 ppb) are associated with this site. At this time, the extent of the chromium contamination has not been identified. Onsite flow direction at the site is to the south; however, according to DGS water table mapping, regional flow direction is to the north-northwest toward the proposed well location. The GPB completed a WhAEM model to determine the 5-year capture zone for the well. The modeled capture zone includes the entire Procino Plating Property.

Based on the proposed location, the GPB and SIRS recommends one of two options for the well at this location:

- 1) the proposed well location be moved to an area that the 5 year capture zone does not include the Procino Plating facility
- 2) the proposed well be completed in a confined aquifer.

A conference call occurred between DNREC, Davis, Bowen and Friedel (the Town of Blades Engineer), and the Town of Blades on April 2, 2014 to discuss the two options. The Town proposed to move the location of **Ex. 9 Wells**

**Ex. 9 Wells** Based on the capture zone from the WhAEM model, the new location will not capture water from under the Procino Plating site. A new well permit application with the new location was submitted on September 15, 2014. The application was assigned DNREC id 248353.

**Amber Joseph, P.G.**

Hydrologist II  
Division of Water Resources  
Dept. of Natural Resources & Environmental Control  
89 Kings Highway  
Dover, Delaware 19901  
Phone: (302) 739-9945  
Fax: (302) 739-2296  
[amber.joseph@state.de.us](mailto:amber.joseph@state.de.us)